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decomposed plant material, the overburden exerted increasing heat and organic matter. Over millions of years, these physical conditions caused the carbon, hydrogen, oxygen, nitrogen, sulfur, and inorganic mineral co plant matter. The coal formed in layers known as seams.

Plant matter changes into coal in stages. In each successive stage, highe heat from the accumulating overburden increase the carbon content of the and drive out more of its moisture content. Scientists classify coal accord carbon content, or the amount of carbon the coal produces when heated conditions. Higher grades of coal have a higher fixed carbon content.

II MODERN USES OF COAL

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Eighty-six percent of the coal used in the United States is burned by elec to produce electricity. When burned, coal generates <u>energy</u> in the form o plant that uses coal as fuel, this heat converts water into steam, which is spin the shaft of a <u>turbing</u>. This spinning shaft drives a generator that co mechanical energy of the rotation into electric power (see <u>Electric Motors</u> Steam Engine).

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Coal is also used in the steel industry. The steel industry uses coal by fire converting it into coke, a hard substance consisting of nearly pure carbot

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